

NOTES AND NEWS

HORTON H. HOBBS, JR.
(29 MARCH 1914-22 MARCH 1994)

BY

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Science, and the crustacean community in particular, suffered a significant loss with the death of Horton Holcombe Hobbs, Jr., at his home in Falls Church, Virginia, USA, one week before his 80th birthday. Although he will be most remembered for his work with the Decapoda Cambaridae, his more than 200 published titles (many of book/monograph length) covered a broad spectrum of competence. In the cambarids, he described 42% of the known species and subspecies, erected the family Cambaridae to receive most of the North American forms, and designated five genera and 14 subgenera; additionally he published authoritatively on the Madagascar and South American parastacids, freshwater crabs, freshwater shrimps, entocytherid ostracods, ecology of freshwater communities, and histology and cytology of invertebrates.

Born in Alachua County, Florida, he matriculated to the University of Florida, Gainesville, in 1931 intending to study music. A fortuitous circumstance in his freshman year convinced him to study crawfishes (as he called them in conversation), and the rest is well known. After receiving his B.S. in 1934, he obtained his M.S. in 1936, and his Ph.D. in 1940, working under the direction of J. Speed Rogers. His initial interest was in ecology, but he discovered to his frustration—all too common in invertebrate studies—that the taxonomy of Florida crawfishes was too rudimentary for accurate work, and he set out to rectify this for that state alone. Before he published in 1942, he had increased the known faunal list five-fold to 42 taxa, 28 of which were previously unknown to science; this gave Florida the greatest diversity known for any political subdivision at that time. He continued this work until his last paper, the description of yet another previously unknown species.

His formal career began at his alma mater where he began teaching in 1937 and continued to the rank of Associate Professor when, in 1946, he accepted appointment to the faculty of the University of Virginia, Charlottesville, where he ultimately attained the rank of full Professor. He was an effective administrator. He was Director of the Mountain Lake Biological Station of the University

of Virginia 1956-60, and he left the University in 1962 to assume the role of Head Curator of Zoology at the United States National Museum, Smithsonian Institution. His chief contribution in that post was to implement the administrative reorganization that resulted in the basic system seen there today: a variety of "Divisions", each of appropriate size to be lead by a single individual. But 1964 the severe heart disease that ultimately claimed his life forced his movement from that role to the less strenuous job of Senior Zoologist; on his formal retirement in 1984, he was designated Senior Zoologist Emeritus.

Hobbs was a superb teacher. He received teaching awards while at the University of Virginia and was active in graduate training both at the Master's and Doctoral levels. I had the privilege of being his last formal doctoral student, but he continued to involve himself in graduate training after leaving Virginia, being involved in the research problems of the astacologists Raymond W. Bouchard and Rollin D. Reimer, as well as others. His students who became authoritative include G. W. Hart, Jr. (entocytherid ostracods), and Perry C. Holt (branchiobdellid annelids). His unstinting helps to others are far too numerous to list here.

He did not neglect his obligations to his community, non-professional and professional. In the former, he offered many helps in every place he lived. He held office in international and regional societies. These included the presidency of the American Microscopical Society (1963-64). He was a founding member of the Crustacean Society and of the International Association of Astacology.

His talents were many. Those familiar with his work are aware of his artistic abilities, but he did not stop at scientific illustration. He left behind portraits of his family, a set of ceramic plates on which he had recorded the color patterns of many species, and (as an in camera activity) considerable needlework on crawfish themes, to occupy himself while "relaxed". He was skilled in music: for many years he was organist for his church in Charlottesville, and a favorite pastime was an evening piano duet with his wife, Georgia. His knowledge of botany led him to collect unusual plants on his many field trips. These he brought home and transplanted into a rigidly controlled mixture of wild and horticultural varieties in what seemed to be a southern Appalachian forest; many, including me, enjoyed the relaxing effects of his hard labor.

He and Georgia delighted in entertaining, and they were able to convey a sense of comfort and welcome to all their guests. For many who read this, a fond memory will be evoked of the traditional "cruise" on Lake Barcroft that bordered his suburban Washington home. He was extremely fond of people and they reciprocated. His charm and the depth of his genuine concern caused almost everyone with whom he came in contact to like him. The most common term



Harlow H. Hottle, Jr.

used to reference him indicated that he exhibited the finest qualities of the classic Southern American Gentleman.

Professionally, he left a legacy of a stable taxonomic system for North American crawfishes. Despite the fact that American separateness was recognized by Girard in 1852, and Hagen in 1870 established a sound taxonomy based on the male first pleopod, it was not until he began his work that the system we use today was inaugurated (1942). This and the phylogeny that he continued to elucidate throughout his career remains unchallenged in its fundamental concepts. His personal legacies extend also into his professional. His son and namesake continues his studies of freshwater crustaceans, and a grandson, Thomas Amrhine Singleton, is a dedicated field biologist with a recent Ph.D.; a second grandson, Horton H. IV, is currently at university, studying environmental biology.

He was survived by his wife (who died in January, 1995), his son and a daughter, Nina Hobbs Singleton, plus five grandchildren, a great-grandchild, and innumerable academic "children and grandchildren" who proudly proclaim their heritage. To this list must be appended a host of friends who will always treasure the man and his work, given below.

PUBLICATIONS OF HORTON H. HOBBS, JR.

- 1937 – Some Florida crawfishes and their habitat distribution. Proc. Florida Acad. Sci., **1**: 154. (Abstract).
- 1938 – Two new crawfishes from Florida, *Cambarus hubbelli* and *Cambarus acherontis pallidus*. Proc. Florida Acad. Sci., **2**: 90-91. (Abstract).
- 1938 – A new crawfish from Florida. Journ. Washington Acad. Sci., **28** (2): 61-65, 11 figs.
- 1940 – Seven new crayfishes of the genus *Cambarus* from Florida, with notes on other species. Proc. U.S. Natl. Mus., **89** (3097): 387-423, figs. 14-22.
- 1940 – A new crayfish from South Carolina. Charleston Mus. Leaflet, **14**: 3-7, 10 figs.
- 1941 – A new crayfish from San Luis Potosí, Mexico (Decapoda, Astacidae). Zoologica, **26** (1): 1-4, 1 text fig.
- 1941 – Three new Florida crayfishes of the subgenus *Cambarus*. American Midland Naturalist, **26** (1): 110-121, 2 pls.
- 1942 – On the first pleopod of the male Cambari. Proc. Florida Acad. Sci., **5** (for 1940): 55-61, 2 pls.
- 1942 – On the crayfishes collected from the Big South Fork of the Cumberland River in Tennessee during the summer of 1938. American Midland Naturalist, **28** (3): 634-644, 1 pl., 1 fig., 1 map. (With C. S. SHOUP).
- 1942 – A generic revision of the subfamily Cambarinae (Decapoda, Astacidae) with the description of a new genus and species. American Midland Naturalist, **28** (2): 334-357, 3 pls.
- 1942 – The crayfishes of Florida. Univ. Florida Publ. (Biol. Sci.), **3** (2): i-v, 1-179, 3 text figs., 11 maps, 24 pls.
- 1943 – A contribution toward a knowledge of the crayfishes of the Reelfoot Lake Area. Journ. Tennessee Acad. Sci., **28** (1): 6-35, 3 pls., 1 map. (With L. J. MARCHAND).

- 1943 – Two new crayfishes from the panhandle of Florida (Decapoda, Astacidae). Proc. Florida Acad. Sci., **6** (1): 49-58, 32 figs.
- 1943 – Two new crayfishes of the genus *Procambarus* from Mexico (Decapoda, Astacidae). Lloydia, **6** (1): 198-206, 2 pls.
- 1944 – Notes on the subterranean waters of the Florida peninsula with particular reference to their crustacean fauna. The Biologist, **26** (1 and 2): 6-8.
- 1945 – Notes on the first pleopod of the male Cambarinae. Quart. Journ. Florida Acad. Sci., **8** (1): 68-70, 1 pl.
- 1945 – Two new species of crayfishes of the genus *Cambarellus* from the Gulf Coastal States, with a key to the species of the genus (Decapoda, Astacidae). American Midland Naturalist, **34** (2): 466-474, 26 figs.
- 1945 – The subspecies and intergrades of the Florida burrowing crayfish, *Procambarus rogersi* (Hobbs). Journ. Washington Acad. Sci., **35** (8): 247-260, 34 figs.
- 1947 – Two new crayfishes of the genus *Procambarus* from Georgia with notes on *Procambarus pubescens* (Faxon) (Decapoda, Astacidae). Quart. Journ. Florida Acad. Sci., **9** (1): 1-18, 32 figs.
- 1947 – Two new crayfishes (Decapoda, Astacidae) from the Obey River drainage in Tennessee. Journ. Tennessee Acad. Sci., **22** (2): 138-145, 22 figs. (With C. S. SHOUP).
- 1947 – A key to the crayfishes of the Pictus subgroup of the genus *Procambarus*, with the description of a new species from South Carolina. Florida Entomol., **30** (3): 25-31, 12 figs.
- 1947 – A preliminary report on the crayfishes of Virginia. Proc. Virginia Acad. Sci., **1946-47**: 72. (Abstract).
- 1948 – On the crayfishes of the Limosus section of the genus *Orconectes* (Decapoda, Astacidae). Journ. Washington Acad. Sci., **38** (1): 14-21, 28 figs.
- 1948 – Two new crayfishes of the genus *Orconectes* from Arkansas, with a key to the species of the Hylas group (Decapoda, Astacidae). American Midland Naturalist, **39** (1): 139-150, 30 figs.
- 1948 – Crayfish in Southern Nevada. Science, New York, **107** (2780): 369. (With D. J. ZINN).
- 1948 – The crayfish genus *Cambarellus* in the United States. Proc. Virginia Acad. Sci., **1948**: 88. (Abstract).
- 1948 – A new crayfish of the genus *Orconectes* from Southern Tennessee (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **61** (15): 85-91, 9 figs.
- 1948 – A new crayfish of the genus *Cambarus* from Texas, with notes on the distribution of *Cambarus fodiens* (Cottle). Proc. U.S. Natl. Mus., **98** (3230): 223-231, 12 figs.
- 1949 – A new crayfish of the genus *Orconectes* from the Nashville Basin in Tennessee, with notes on the range of *Orconectes compressus* (Faxon) (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **62** (7): 17-24, 10 figs. (With C. E. PARISH).
- 1949 – Notes on the life history of a Virginia crayfish. Proc. Virginia Acad. Sci., **1948-49**: 97. (Abstract). (With C. E. PARISH).
- 1949 – The cave crayfishes of North America. Journ. Tennessee Acad. Sci., **24** (3): 170. (Abstract).
- 1949 – Observations on the emergence of a stonefly of the genus *Taeniopteryx* in Virginia. Proc. Virginia Acad. Sci., **1948-49**: 101. (Abstract).
- 1950 – A new crayfish of the genus *Cambarellus* from Texas (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **63** (18): 89-96, 17 figs.
- 1950 – A new crayfish of the genus *Procambarus* from Oklahoma and Arkansas (Decapoda, Astacidae). Journ. Washington Acad. Sci., **40** (6): 194-198, 12 figs.
- 1950 – Observations on the ecological distribution of three Virginia crayfishes. Virginia Journ. Sci., **1** (4): 349. (Abstract).
- 1951 – A new crayfish of the genus *Orconectes* from southeastern Virginia (Decapoda, Astacidae). Virginia Journ. Sci., (n.s.) **2** (2): 122-128, 10 figs.

- 1951 – A new crayfish of the genus *Procambarus* from Louisiana with a key to the species of the Spiculifer group. Journ. Washington Acad. Sci., **41** (8): 272-276, 11 figs.
- 1952 – A new crayfish from Alabama, with notes on *Procambarus lecontei* (Hagen). Proc. U.S. Natl. Mus., **102** (3297): 209-219, 26 figs.
- 1952 – The river shrimp, *Macrobrachium ohione* (Smith), in Virginia. Virginia Journ. Sci., **3** (3): 206-207. (With W. H. MASSMAN).
- 1952 – A new crayfish of the genus *Procambarus* from Georgia with a key to the species of the Clarkii subgroup (Decapoda, Astacidae). Quart. Journ. Florida Acad. Sci., **15** (3): 165-174, 14 figs.
- 1952 – A new albinistic crayfish of the genus *Cambarus* from southern Missouri with a key to the albinistic species of the genus (Decapoda, Astacidae). American Midland Naturalist, **48** (3): 689-693, 8 figs.
- 1952 – A preliminary report on the crayfishes from the Atlantic Slope from New Brunswick to South Carolina. Virginia Journ. Sci., **3** (4): 295. (Abstract).
- 1953 – Two new crayfishes from the Highland Rim in Tennessee (Decapoda, Astacidae). Journ. Tennessee Acad. Sci., **28** (1): 20-27, 18 figs.
- 1953 – Additional records of the occurrence of the freshwater jellyfish, *Craspedacusta sowerbii*, in Virginia. Virginia Journ. Sci., **4** (3): 137. (With C. H. PAGE).
- 1953 – The epizootic associates of the crayfishes of the New River System with particular reference to the ostracods. Journ. Tennessee Acad. Sci., **28** (3): 180-181. (Abstract).
- 1953 – A new crayfish of the genus *Procambarus* from Alabama and Florida (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **66** (22): 173-178, 9 pls.
- 1953 – On the ranges of certain crayfishes of the Spiculifer group of the genus *Procambarus*, with the description of a new species (Decapoda, Astacidae). Journ. Washington Acad. Sci., **43** (12): 412-417, 12 figs., 1 map.
- 1954 – Apparent competition between two groups of crayfishes in the southeastern states. Virginia Journ. Sci., **4** (4): 230. (Abstract).
- 1954 – A new crayfish from the upper coastal plain of Georgia (Decapoda, Astacidae). Quart. Journ. Florida Acad. Sci., **17** (2): 110-118, 13 figs.
- 1954 – A redescription of *Procambarus ruthveni* (Pearse) from La Laja Creek at Cautotolapam, Veracruz, Mexico (Decapoda, Astacidae). Occ. Pap. Mus. Zool., Univ. Michigan, **559**: 1-5, 9 figs.
- 1954 – Studies on the geographic distribution of the crayfishes of the genus *Procambarus*. Journ. Tennessee Acad. Sci., **29** (3): 181. (Abstract).
- 1954 – Notes on the evolution of the Longulus group of the crayfish genus *Cambarus*. Virginia Journ. Sci., **5** (4): 261. (Abstract).
- 1955 – A new crayfish of the genus *Cambarus* from Mississippi. Proc. Biol. Soc. Washington, **68** (15): 95-100, 11 figs.
- 1955 – Ostracods of the genus *Entocythere* from the New River System in North Carolina, Virginia, and West Virginia. Trans. American Micros. Soc., **74** (4): 325-333, 10 figs.
- 1955 – A tendency toward cyclic dimorphism in female crayfishes. Virginia Journ. Sci., **6** (4): 248. (Abstract).
- 1955 – Two crayfish highways to Florida. A.S.B. [= Association of Southeastern Biologists] Bull., **2** (1): 7. (Abstract).
- 1956 – A new crayfish of the genus *Cambarus* from North Carolina and South Carolina (Decapoda, Astacidae). Journ. Elisha Mitchell Sci. Soc., **72** (1): 61-67, 11 figs.
- 1956 – A new crayfish of the Extraneus section of the genus *Cambarus* with a key to the species of the section (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **69** (18): 115-121, 11 figs.
- 1956 – A new crayfish of the genus *Procambarus* from South Carolina (Decapoda, Astacidae). Journ. Washington Acad. Sci., **46** (4): 117-121, 17 figs.

- 1956 – The decapod crustaceans of the Warettee River system in North Carolina and South Carolina. A.S.B. [= Association of Southeastern Biologists] Bull., **3** (1): 10. (Abstract). (With H. W. FREEMAN).
- 1956 – The crayfishes of the lower Flint-Chattahoochee River system. Virginia Journ. Sci., **7** (4): 292. (Abstract). (With C. W. HART).
- 1957 – Observaciones acerca de las especies del genero *Entocythere* (Crustaceos, Ostracodes) de Cuba. An. Inst. Biol. Univ. Nal. Autón. México, **27** (2): 431-436, 8 figs.
- 1957 – Three new crayfishes from Alabama and Mississippi (Decapoda, Astacidae). Tulane Stud. Zool., **5** (3): 39-52, 34 figs. (With MARGARET WALTON).
- 1958 – The evolutionary history of the Pictus group of the crayfish genus *Procambarus* (Decapoda, Astacidae). Quart. Journ. Florida Acad. Sci., **2** (1): 71-91, 20 figs.
- 1958 – Two new crayfishes of the genus *Procambarus* from South Carolina. Journ. Washington Acad. Sci., **48** (5): 160-168, 24 figs.
- 1958 – Two new crayfishes of the genus *Procambarus* from South Carolina and Georgia. Notulae Naturae, **307**: 1-12, 26 figs.
- 1958 – *Procambarus pearsei plumimanus*, a new crayfish from North Carolina (Decapoda, Astacidae). Journ. Elisha Mitchell Sci. Soc., **74** (1): 7-12, 13 figs. (With MARGARET WALTON).
- 1958 – Observations on the testis of the crayfish *Cambarus montanus acuminatus* Faxon. Trans. American Microsc. Soc., **77**: 435-450, 26 figs., 1 chart. (With B. H. WORD, Jr.).
- 1958 – The exoskeleton of a freshwater crab as a microhabitat for several invertebrates. Virginia Journ. Sci., **9** (4): 395-396. (Abstract). (With ALEJANDRO VILLALOBOS).
- 1958 – General Zoology. Tracey I. Storer and Robert L. Usinger. A.I.B.S. [= Americal Institute of Biological Sciences] Bull., **8**: 43 (Book Review).
- 1958 – A contribution toward a knowledge of the crawfishes of Texas (Decapoda, Astacidae). Texas Journ. Sci., **10** (4): 452-483, 68 figs. (With G. H. PENN).
- 1959 – A new crayfish of the genus *Procambarus* from Alabama (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **72** (10): 39-44, 12 figs. (With MARGARET WALTON).
- 1959 – The freshwater decapod crustaceans of the Apalachicola Drainage system in Florida, southern Alabama and Georgia. Bull. Florida State Mus., **4** (5): 145-191, 39 figs., 8 maps. (With C. W. HART, Jr.).
- 1959 – Two new eyeless ostracods of the genus *Entocythere* from Florida. Quart. Journ. Florida Acad. Sci., **22** (2): 114-120, 20 figs. (With MARGARET WALTON).
- 1959 – Malacostraca. In: W. T. EDMONSON (ed.), Henry Baldwin Ward and George Chandler Whipple's Fresh-water Biology, (ed. 2): 889-901, 41 figs. (New York, Wiley). (With FENNER A. CHACE, Jr., J. G. MACKIN, LESLIE HUBRICHT & ALBERT H. BANNER).
- 1960 – Three new ostracods of the genus *Entocythere* from the Hiwassee Drainage system in Georgia and Tennessee. Journ. Tennessee Acad. Sci., **35** (1): 17-23, 20 figs. (With MARGARET WALTON).
- 1960 – The origins and affinities of the troglobitic crayfishes of North America (Decapoda, Astacidae). 1. The Genus *Cambarus*. American Midland Naturalist, **64** (1): 12-33, 57 figs. (With T. C. BARR, Jr.).
- 1960 – A new crayfish of the genus *Procambarus* from southern Alabama (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **73** (20): 123-129, 11 figs. (With MARGARET WALTON).
- 1961 – Additional new ostracods from the Hiwassee drainage system in Georgia, North Carolina, and Tennessee. Trans. American Microsc. Soc., **80** (4): 379-384, 8 figs. (With MARGARET WALTON).
- 1961 – Eight new troglobitic ostracods of the genus *Entocythere* (Crustacea, Ostracoda) from the eastern United States. Proc. Natl. Acad. Sci., Philadelphia, **113** (8): 173-185, 32 figs. (With C. W. HART, Jr.).

- 1962 – A new crayfish of the genus *Cambarus* from Georgia (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **75** (5): 41-45, 10 figs. (With H. H. HOBBS III).
- 1962 – New ostracods of the genus *Entocythere* from the Mountain Lake region, Virginia (Ostracoda, Entocytheridae). Virginia Journ. Sci., (n.s.) **13** (2): 42-48, 11 figs. (With MARGARET WALTON).
- 1962 – Notes on the affinities of the members of the Blandingii section of the crayfish genus *Procambarus* (Decapoda, Astacidae). Tulane Stud. Zool., **9** (5): 273-293, 72 figs.
- 1962 – A new crayfish of the Propinquus group of the genus *Orconectes* from the Ohio drainage system in West Virginia (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **75** (30): 207-214, 15 figs. (With J. F. FITZPATRICK, Jr.).
- 1962 – La presencia de *Procambarus clarkii* (Girard) en los estados de Chihuahua y Sonora, México (Decapoda, Astacidae). An. Inst. Biol. Univ. Nal. Autón. México, **33** (1, 2): 273-276, 9 figs.
- 1963 – Three new ostracods (Ostracoda, Entocytheridae) from the Duck River drainage in Tennessee. American Midland Naturalist, **69** (2): 456-461, 10 figs. (With MARGARET WALTON).
- 1963 – Four new species of the genus *Donnaldsoncythere* (Ostracoda, Entocytheridae) from Virginia with a key to the species of the genus. Trans. American Microsc. Soc., **82** (4): 363-370, 26 figs. (With MARGARET WALTON).
- 1963 – Florida crayfishes. Quipu, **2** (2): 8.
- 1964 – Los cambarinos de Cuba. An. Inst. Biol. Univ. Nal. Autón. México, **34** (1, 2): 307-366, 50 figs., 5 maps. (With ALEJANDRO VILLALOBOS).
- 1964 – A new troglobitic crayfish of the genus *Cambarus* (Decapoda, Astacidae) from Arkansas with a note on the range of *Cambarus cryptodytes* Hobbs. Proc. Biol. Soc. Washington, **77** (3): 9-15, 11 figs. (With M. S. BEDINGER).
- 1964 – A new cave-dwelling crayfish from the Greenbrier drainage system. West Virginia (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **77** (21): 189-194, 10 figs.
- 1965 – Observations of a new troglobitic crayfish (With notes on the distribution of troglobitic crayfishes in the Ozark region). Bull. Natl. Speleol. Soc., **27** (3): 93-96, 1 figs. (With M. S. BEDINGER).
- 1965 – A new crayfish of the genus *Cambarus* from Tennessee with an emended definition of the genus (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **78** (33): 265-273, 12 figs.
- 1966 – *Astacus oregonus* Randall, 1840 (Crustacea, Decapoda): proposed suppression under the plenary powers. Bull. Zool. Nomenclature, **22** (5/6): 351-354.
- 1966 – A new crayfish from Alabama with observations on the Cristatus section of the genus *Cambarus* (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **79** (15): 109-116, 10 figs.
- 1966 – *Ortonectes juvenilis* (Hagen) in Mountain Lake, Virginia: an unplanned experiment in interspecific competition (Decapoda, Astacidae). Virginia Journ. Sci., **17** (3): 136-140. (With MARGARET WALTON).
- 1966 – On the entocytherid ostracod genera *Ascetocythere*, *Plectocythere*, *Phymocythere* (gen. nov.), and *Cymocythere*, with descriptions of new species. Proc. Acad. Nat. Sci., Philadelphia, **118** (2): 35-61, 37 figs. (With C. W. HART, Jr.).
- 1966 – A new genus and six new species of entocytherid ostracods (Ostracoda, Entocytheridae). Proc. U.S. Nat. Mus., **119** (3542): 1-12, 2 figs., 1 table. (With MARGARET WALTON).
- 1966 – An illustrated key to the species of the genus *Ankylocythere* with a description of a new species from Louisiana (Ostracoda, Entocytheridae). Proc. Louisiana Acad. Sci., **29**: 67-75, 18 figs.
- 1967 – A new genus and three new species of ostracods with a key to the genus *Dactylocythere* (Ostracoda: Entocytheridae). Proc. U.S. Natl. Mus., **122** (3587): 1-10, 1 fig.
- 1967 – The current status of the crayfishes listed by Girard (1852) in his "A Revision of the North American Astaci..." (Decapoda, Astacidae). Crustaceana, **12** (2): 124-132.

- 1967 – A new burrowing crayfish from North Carolina (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **80** (21): 141-146, 11 figs. (With F. O. PERKINS).
- 1967 – The crayfishes and their epizoitic ostracod and branchiobdellid associates of the Mountain Lake, Virginia, region. Proc. U.S. Natl. Mus., **123** (3602): 1-84, 22 figs., 1 map. (With P. C. HOLT & MARGARET WALTON).
- 1967 – A new crayfish from Alabama caves with notes on the origin of the genera *Orconectes* and *Cambarus* (Decapoda, Astacidae). Proc. U.S. Natl. Mus., **123** (3621): 1-17, 21 figs.
- 1968 – Two new crayfishes of the genus *Cambarus* from Georgia, Kentucky, and Tennessee (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **81** (31): 261-274, 22 figs.
- 1968 – The crayfishes and their epizoitic ostracod and branchiobdellid associates of the Mountain Lake, Virginia, region. Virginia Journ. Sci., **19** (3): 178. (Abstract). (With P. C. HOLT and MARGARET WALTON).
- 1968 – Crustacea: Malacostraca. In: FRED K. PARRISH (ed.), Keys to Water Quality Indicative Organisms (Southeastern United States): K1-K36, 32 figs. (Federal Water Pollution Control Administration, U.S. Dept. of the Interior).
- 1968 – New entocytherid ostracods from the southern United States. Proc. Acad. Nat. Sci., Philadelphia, **120** (6): 237-252, 3 figs. (With MARGARET WALTON).
- 1969 – The freshwater and terrestrial decapod crustaceans of the West Indies with special reference to Dominica. Bull. U.S. Natl. Mus., **292**: 1-258, 76 figs., 5 pls. (With F. A. CHACE, Jr.).
- 1969 – *Procambarus villalobosi*, un nuevo cambarino de San Luis Potosí, México (Decapoda, Astacidae). An. Inst. Biol. Univ. Nal. Autón. México (Cienc. del Mar y Limnol.), **38** (1): 41-46, 11 figs.
- 1969 – On the distribution and phylogeny of the crayfish genus *Cambarus*. In: PERRY C. HOLT, RICHARD L. HOFFMAN & C. WILLARD HART, Jr. (eds.), The distributional history of the biota of the Southern Appalachians, Part I. Invertebrates. Virginia Polytechnic Inst., Res. Div. Monogr., **1**: 93-178, 20 figs.
- 1969 – New crayfishes from Georgia (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **82** (21): 281-294, 24 figs. (With E. T. HALL, Jr.).
- 1969 – Two new species of the crayfish genus *Procambarus* (Decapoda, Astacidae) with keys to the members of the Spiculifer group. Proc. Biol. Soc. Washington, **83** (24): 329-348, 38 figs.
- 1970 – A new crayfish of the genus *Fallicambarus* from Tennessee (Decapoda, Astacidae). Proc. Biol. Soc. Washington, **82** (64): 829-836, 12 figs. (With J. F. FITZPATRICK, Jr.).
- 1970 – New entocytherid ostracods from Tennessee and Virginia. Proc. Biol. Soc. Washington, **82** (68): 851-863, 3 figs. (With MARGARET WALTON).
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